

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450
Alexandria, Virginia 22313-1450
www.usplo.gov

APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/702,038	/702,038 11/06/2		Kouichi Katou	P21-163397M/YS	9362	
21254	7590	10/19/2004		EXAM	EXAMINER	
MCGINN 8		PLLC OUSE ROAD	BOSWELL, CH	BOSWELL, CHRISTOPHER J		
SUITE 200	OUKING	JUSE KOAD	•	ART UNIT	PAPER NUMBER	
VIENNA, V	/A 22182	2-3817	3676			

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Applicant(s)					
		10/702,038	KATOU ET AL.	KATOU ET AL.					
	Office Action Summary	Examiner	Art Unit	1					
		Christopher Boswell	3676						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)[Responsive to communication(s) filed on			,					
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.		•					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	Claim(s) 1-9 is/are pending in the applicat	tion.							
	4a) Of the above claim(s) is/are wit	hdrawn from consideration.		:					
5)□	Claim(s) is/are allowed.			>					
-	Claim(s) <u>1-9</u> is/are rejected.		•	*					
· ·	Claim(s) is/are objected to.			· .					
8)	Claim(s) are subject to restriction a	and/or election requirement.		ξ,					
Applicati	on Papers								
9) 🗌 🤈	The specification is objected to by the Exa	miner.							
10)⊠ The drawing(s) filed on <u>06 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.									
	Applicant may not request that any objection to	o the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the co	orrection is required if the drawing(s) is objected to. See 37 CFF	R 1.121(d).					
11) 🗌	The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTC	D-152.					
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	c(s)								
	e of References Cited (PTO-892)		mmary (PTO-413)						
3) 🔯 Inform	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date 6/4/04.	~/ [- 7	Mail Date ormal Patent Application (PTO- -	152)					

Art Unit: 3676

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 4,781,407 to Rauchhaus, in view of U.S. Patent Number 6,322,282 to Kussman et al.

Rauchhaus discloses the invention substantially as claimed. A lock apparatus for attaching a container member to a support member openably, the lock apparatus having a operation handle (34), a spring (28), which are movably supported by the container member, a pair of slide pins (10 and 11), which are urged in directions of lock holes (figure 1) defined on the support member by the spring and a pair of cam members (19 and 20) to which rear end portions of the slide pins are fitted (column 5, lines 11-22), respectively to urge each slide pin to project and retract, wherein, the operation handle is operated in a swing manner, a front end portion of each slide pin is retracted from each lock hole of the support member against pressure of each spring (column 5, lines 24-33), engagement holes (figures 4 and 5) are defined on opposed surfaces of each front end portion of the cam member having a cylindrical portion. However, Rauchhaus does not disclose the method to which the slide pins are connected to the cam members. Kussman teaches of an adapter (10) having a bifurcated structure made from elastic pieces (43 and 44), where each of the elastic pieces have a protrusion (49) for detachably engaged with an engagement hole in a torque transmission hub (52) in the analogous art of

Art Unit: 3676

torque transmission devices for the purpose of connecting an operated device to an actuator, and to apply both torque and axial force to the operated device, where the adapter can also be rapidly detached from the hub with out tools. It would have been obvious to one with ordinary skill in the art at the time the invention was made to provide a connection means between the slide pins and the cam members by using a bifurcated structure on the end on the slide pins to engage into an engagement hole in the cam member in order to connect the cam members to the slide pins, and to apply both torque and axial force to the slide pins, where the slide pins can also be rapidly detached from the cam members with out tools.

Rauchhaus also discloses the slide pins connected to the cam members to be swingable (column 6, lines 7-21), as in claim 2.

Kussman further teaches a stopper piece (63) provided between the elastic pieces of each slide pin, and an elastic contact piece for contacting with the stopper piece is formed on a surface of each hub member (47, figure 2), and a rib wall (48), where it would have been obvious to one with ordinary skill in the art at the time the invention was made to utilize a stopper piece between the elastic pieces in order to established a additional stiffness to the elastic pieces, as in claims 3 and 4.

Rauchhaus additionally discloses an outer cylindrical member (39) formed on the operation handle, and an O-ring (31 and 32) which contacts with the outer cylindrical member and the cylindrical portion of the cam member simultaneously (figure 4), as in claim 5, wherein the cylindrical portion of the cam member includes a containing groove (33) to which the O-ring is attached, as in claim 6, and wherein the containing groove is formed in a recessed shape (figure 4 and 5) to isolate the O-ring, as in claim 7, as well as the outer cylindrical member has a

Art Unit: 3676

bottom surface, a cam groove (24) is formed on the cylindrical portion of the cam member, and a projected portion (41 and 42) is formed on the outer cylindrical member, the projected portion moves in the cam groove (figures 4 and 5), the projected portion and the cam groove are disposed in a space (5) blocked by the O-ring, as in claim 8 and 9.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to latching assemblies with camming devices:

U.S. Patent Number 6,669,243 to Katoh et al., U.S. Patent Number 6,120,069 to Taranto, U.S. Patent Number 5,688,000 to Dolman, U.S. Patent Number 3,596,952 to Hinkle, U.S. Patent Number 2,088,665 to Pinson.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Boswell whose telephone number is (703) 305-4067. The examiner can normally be reached on 8:30 - 5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703) 308-2686. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3676

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CJB (**3**)
October 15, 2004

DANIEL P. STODOLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

Janiel P Stodola